## WHAT IS CLAIMED IS:

- 1. A microelectronic device, comprising:
- an insulator located over a substrate;
- a semiconductor feature located over the insulator and having a thickness, a first surface opposite the insulator, and a sidewall spanning at least a portion of the thickness; and
- a contact layer having a first member extending over at least a portion of the first surface and a second member spanning at least a portion of the sidewall.
- 2. The device of claim 1 wherein a portion of the semiconductor feature interposes the insulator and the second member of the contact layer.
- 3. The device of claim 2 wherein the portion of the semiconductor feature interposing the insulator and the second member of the contact layer has a thickness of at least about 50 Angstroms.
- 4. The device of claim 2 wherein the portion of the semiconductor feature interposing the insulator and the second member of the contact layer has a thickness of less than about 100 Angstroms.
- 5. The device of claim 1 wherein the contact layer comprises a third member connected to the second member and interposing a portion of the insulator and a portion of the semiconductor feature.
- 6. The device of claim 5 wherein the third member of the contact layer has a thickness of at least about 10 Angstroms.
  - 7. The device of claim 1 wherein the contact layer comprises metal.
  - 8. The device of claim 1 wherein the contact layer comprises metal silicide.

- 9. The device of claim 1 wherein the contact layer comprises cobalt silicide.
- 10. The device of claim 1 wherein the contact layer comprises nickel silicide.
- 11. The device of claim 1 wherein the contact layer comprises metal nitride.
- 12. The device of claim 1 wherein the contact layer comprises metal oxide.
- 13. The device of claim 1 wherein the first member of the contact layer has a thickness of less than about 400 Angstroms.
  - 14. The device of claim 1 wherein the semiconductor feature comprises silicon.
- 15. The device of claim 1 wherein the semiconductor feature comprises silicon and germanium.
- 16. The device of claim 1 wherein the semiconductor feature comprises silicon and carbon.
- 17. The device of claim 1 wherein the semiconductor feature comprises silicon, germanium and carbon.
- 18. The device of claim 1 wherein the semiconductor feature has a thickness of at least about 400 Angstroms.
- 19. The device of claim 1 wherein the semiconductor feature has a thickness of at least about 100 Angstroms.
  - 20. The device of claim 1 wherein the insulator comprises an oxide.
  - 21. The device of claim 1 wherein the insulator comprises silicon nitride.

- 22. The device of claim 1 wherein the insulator comprises silicon oxynitride.
- 23. The device of claim 1 wherein the insulator comprises a high-k dielectric material.
  - 24. The device of claim 1 wherein the insulator comprises a buried oxide layer.
- 25. The device of claim 1 wherein the substrate is a silicon-on-insulator (SOI) substrate having an insulating layer interposing a semiconductor layer and a bulk substrate, the insulator is defined in the insulating layer, and the semiconductor feature is defined in the semiconductor layer.
  - 26. A transistor device, comprising:

an insulator located over a substrate;

a gate located over the insulator;

source and drain regions on opposing sides of the gate and having a thickness over the insulator, each of the source and drain regions having a first surface opposite the insulator and a sidewall distal from the gate and spanning at least a portion of the thickness; and

source and drain contacts each having a first member extending over at least a portion of a corresponding first surface and a second member spanning at least a portion of a corresponding sidewall.

- 27. The device of claim 26 wherein a portion of at least one of the source and drain regions interposes the insulator and the second member of a corresponding one of the source and drain contacts.
- 28. The device of claim 26 wherein the interposing portion has a thickness of at least about 50 Angstroms.

- 29. The device of claim 26 wherein the interposing portion has a thickness of less about than 100 Angstroms.
- 30. The device of claim 26 wherein at least one of the source and drain contacts includes a third member connected to a corresponding second member and interposing a portion of the insulator and a portion of a corresponding one of the source and drain regions
- 31. The device of claim 26 wherein the third member has a thickness of at least about 10 Angstroms.
- 32. The device of claim 26 wherein at least one of the source and drain contacts comprises metal.
- 33. The device of claim 26 wherein at least one of the source and drain contacts comprises metal silicide.
  - 34. The device of claim 26 wherein the contact layer comprises cobalt silicide.
  - 35. The device of claim 26 wherein the contact layer comprises nickel silicide.
- 36. The device of claim 26 wherein at least one of the source and drain contacts comprises metal nitride.
- 37. The device of claim 26 wherein at least one of the source and drain contacts comprises metal oxide.
- 38. The device of claim 26 wherein the first member of at least one of the source and drain contacts has a thickness of less than about 400 Angstroms.
- 39. The device of claim 26 wherein at least one of the source and drain regions comprises silicon.

- 40. The device of claim 26 wherein at least one of the source and drain regions comprises silicon and germanium.
- 41. The device of claim 26 wherein at least one of the source and drain regions comprises silicon and carbon.
- 42. The device of claim 26 wherein at least one of the source and drain regions comprises silicon, germanium and carbon
- 43. The device of claim 26 wherein at least one of the source and drain regions has a thickness of at least about 400 Angstroms.
- 44. The device of claim 26 wherein at least one of the source and drain regions has a thickness of at least about 100 Angstroms.
  - 45. The device of claim 26 wherein the insulator comprises an oxide.
  - 46. The device of claim 26 wherein the insulator comprises silicon nitride.
  - 47. The device of claim 26 wherein the insulator comprises silicon oxynitride.
- The device of claim 26 wherein the insulator comprises a high-k dielectric material.
  - 50. The device of claim 26 wherein the insulator is comprise a buried oxide layer.
  - 5'1. A method of manufacturing a microelectronic device, comprising: forming an insulator over a substrate;

forming a semiconductor feature having a thickness over the insulator, a first surface opposite the insulator and a sidewall spanning at least a portion of the thickness; and

forming a contact layer having a first member extending over at least a portion of the first surface and a second member spanning at least a portion of the sidewall.

- 52. The method of claim 51 wherein a portion of the semiconductor feature interposes the insulator and the second member of the contact layer.
- 53. The method of claim 51 wherein the portion of the semiconductor feature interposing the insulator and the second member of the contact layer has a thickness of at least about 50 Angstroms.
- 54. The method of claim 51 wherein the portion of the semiconductor feature interposing the insulator and the second member of the contact layer has a thickness of less than about 100 Angstroms.
- 55. The method of claim 51 wherein the contact layer includes a third member connected to the second member and interposing a portion of the insulator and a portion of the semiconductor feature.
- 56. The method of claim 51 wherein the third member of the contact layer has a thickness of at least about 10 Angstroms.
  - 57. An integrated circuit device, comprising: an insulator located over a substrate; a plurality of microelectronic devices each including:

a semiconductor feature having a thickness over the insulator, a first surface opposite the insulator and a sidewall spanning at least a portion of the thickness; and a contact layer having a first member extending over at least a portion of the first

a plurality of dielectric layers located over the plurality of microelectronic devices; and

surface and a second member spanning at least a portion of the sidewall;

a plurality of interconnects extending through ones of the plurality of dielectric layers, at least one of the plurality interconnects interconnecting ones of the plurality of microelectronic devices.

- 58. The integrated circuit device of claim 57 wherein a portion of each of the semiconductor features interposes the insulator and the second member of a corresponding contact layer.
- 59. The integrated circuit device of claim 57 wherein ones of the contact layers include comprise a third member connected to a corresponding second member and interposing a portion of the insulator and a portion of a corresponding semiconductor feature.